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1 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on (**
Full text available: 📄 pdf(4.21 MB)   Additional Information: full citation, abstract, references, inde

> Understanding distributed applications is a tedious and difficult task. Visualizations based on proc
> better understanding of the execution of the application. The visualization tool we use is Poet, an
> Waterloo. However, these diagrams are often very complex and do not provide the user with the
> experience, such tools display repeated occurrences of non-trivial commun ...

2 A language-based approach to protocol implementation
Mark B. Abbott, Larry L. Peterson
February 1993 **IEEE/ACM Transactions on Networking (TON)**, Volume 1 Issue 1
Full text available: 📄 pdf(1.88 MB)   Additional Information: full citation, references, citings, index term

3 The state of the art in locally distributed Web-server systems
Valeria Cardellini, Emiliano Casalicchio, Michele Colajanni, Philip S. Yu
June 2002   **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2
Full text available: 📄 pdf(1.41 MB)   Additional Information: full citation, abstract, references, citir

> The overall increase in traffic on the World Wide Web is augmenting user-perceived response time
> conjunction with special events. System platforms that do not replicate information content cannc
> large traffic volumes and to match rapid and dramatic changes in the number of clients. The need
> services has produced a variety of novel content delivery architectures. This article w ...
>
> **Keywords:** Client/server, World Wide Web, cluster-based architectures, dispatching algorithms, ⟨
> mechanisms

4 Data-Driven and Demand-Driven Computer Architecture
Philip C. Treleaven, David R. Brownbridge, Richard P. Hopkins
January 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 1
Full text available: 📄 pdf(4.14 MB)   Additional Information: full citation, references, citings, index terms

5 A language-based approach to protocol implementation
Mark B. Abbott, Larry L. Peterson
October 1992   **ACM SIGCOMM Computer Communication Review , Conference proceedings** ‹
protocols, Volume 22 Issue 4
Full text available: 📄 pdf(1.28 MB)   Additional Information: full citation, abstract, references, citir

Morpheus is special-purpose programming language that facilitates the efficient implementation o
divided into three categories, called shapes, so that they can inherit code and data structures bas
implements a particular protocol by refining the inherited structure. Morpheus optimization techni
critical operations to a few assembler instructions even though the ...

6 Distributed operating systems
Andrew S. Tanenbaum, Robbert Van Renesse
December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4
Full text available: 📄 pdf(5.49 MB)   Additional Information: full citation, abstract, references, citir

Distributed operating systems have many aspects in common with centralized ones, but they also
as an introduction to distributed operating systems, and especially to current university research
constitutes a distributed operating system and how it is distinguished from a computer network, \
several examples of current research projects are examined in some detail ...

7 Distributed file systems: concepts and examples
Eliezer Levy, Abraham Silberschatz
December 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 4
Full text available: 📄 pdf(5.33 MB)   Additional Information: full citation, abstract, references, citir

The purpose of a distributed file system (DFS) is to allow users of physically distributed computer
using a common file system. A typical configuration for a DFS is a collection of workstations and r
network (LAN). A DFS is implemented as part of the operating system of each of the connected c(
that emphasizes the dispersed structure and decentralization of both data and con ...

8 Remus: a security-enhanced operating system
Massimo Bernaschi, Emanuele Gabrielli, Luigi V. Mancini
February 2002   **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issu
Full text available: 📄 pdf(295.33 KB)   Additional Information: full citation, abstract, references, citir

We present a detailed analysis of the UNIX system calls and classify them according to their level
Based on these results, an effective mechanism is proposed to control the invocation of critical, fr
integration into existing UNIX operating systems is carried out by instrumenting the code of the s
is granted only in the case where the invoking process and the valu ...

Keywords: Access control, Linux, privileged tasks, system calls interception, system penetration

9 Process migration
September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3
Full text available: 📄 pdf(1.24 MB)   Additional Information: full citation, abstract, references, citir

Process migration is the act of transferring a process between two machines. It enables dynamic
system administration, and data access locality. Despite these goals and ongoing research efforts
With the increasing deployment of distributed systems in general, and distributed operating syste
receiving more attention in both research and product development. As hi ...

Keywords: distributed operating systems, distributed systems, load distribution, process migrati

10 Proceedings of the SIGNUM conference on the programming environment for development :
March 1979   **ACM SIGNUM Newsletter**, Volume 14 Issue 1

Full text available: 📄 pdf(5.02 MB)   Additional Information: full citation

11 Human-computer interface development: concepts and systems for its management
H. Rex Hartson, Deborah Hix
March 1989   **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1

Full text available: 📄 pdf(7.97 MB)   Additional Information: full citation, abstract, references, citir

Human-computer interface management, from a computer science viewpoint, focuses on the proc
interfaces, including their representation, design, implementation, execution, evaluation, and mai
concepts of interface management: dialogue independence, structural modeling, representation, i
development methodologies, and control structures. *Dialogue independence* is th ...

12 Pen computing: a technology overview and a vision
André Meyer
July 1995   **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Full text available: 📄 pdf(5.14 MB)   Additional Information: full citation, abstract, citings, index te

This work gives an overview of a new technology that is attracting growing interest in public as w
visible difference from other technologies is in the use of a pen or pencil as the primary means of
picking up the familiar pen and paper interface metaphor. From this follows a set of consequence:
with other emerging technologies and visions.Starting with a short historic ...

13 Video adaptation: RITA: receiver initiated *just-in-time* tree adaptation for rich media distributi
Zhichen Xu, Chunqiang Tang, Sujata Banerjee, Sung-Ju Lee
June 2003   **Proceedings of the 13th international workshop on Network and operating s
video**

Full text available: 📄 pdf(276.91 KB)   Additional Information: full citation, abstract, references, inde

Application-level multicast networks overlaid on unicast IP networks are increasingly gaining in in
proposals for overlay multicast networks, very few of them focus on the stringent requirements o
media. We propose RITA (Receiver Initiated Timely Adaptation) framework for an efficient overlay
combination of landmark clustering and RTT measurements, and is particularly sui ...

Keywords: DHT, multicast, overlay networks, streaming media

14 Borrow, copy or steal?: loans and larceny in the orthodox canonical form
Anthony J. H. Simons
October 1998   **ACM SIGPLAN Notices , Proceedings of the 13th ACM SIGPLAN conference o
systems, languages, and applications**, Volume 33 Issue 10

Full text available: 📄 pdf(2.09 MB)   Additional Information: full citation, abstract, references, inde

Dynamic memory management in C++ is complex, especially across the boundaries of library abs
the orthodox canonical form (OCF) alleviate some of the problems by ensuring that classes which
faithfully copy and delete these. However, in certain common circumstances, OCF heap structures
General reference counting is not an option in OCF, since a shared body violates the intended valu

Keywords: C++, borrowing, copy-on-write, implementation strategies, larceny, memory manage

15 A distributed system security architecture: applying the transport layer security protocol

Mohammad Mirhakkak

October 1993   **ACM SIGCOMM Computer Communication Review**, Volume 23 Issue 5

Full text available: pdf(892.06 KB)   Additional Information: full citation, abstract, index terms

> A great deal of attention has been given to the development of Open Systems Interconnection (O
> However, limited work has been dedicated to using these protocols to develop security architectui
> consisting of trusted computer systems communicating via untrusted networks. This paper preser
> Security Protocol (TLSP) and discusses its application to the development of a security architectur

16 File-system development with stackable layers

John S. Heidemann, Gerald J. Popek

February 1994   **ACM Transactions on Computer Systems (TOCS)**, Volume 12 Issue 1

Full text available: pdf(2.16 MB)   Additional Information: full citation, abstract, references, citir

> Filing services have experienced a number of innovations in recent years, but many of these pron
> use. One reason is that current filing environments present several barriers to new development.
> stand alone instead of building on the work of others, and support of new filing services often req
> Stackable file-system design addresses these issues in severa ...

> **Keywords**: composability, file system design, operating system structure, reuse

17 Migration: Luna: a flexible Java protection system

Chris Hawblitzel, Thorsten von Eicken

December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

Full text available: pdf(1.39 MB)   Additional Information: full citation, abstract, references

> Extensible Java systems face a difficult trade-off between sharing and protection. On one hand, Ji
> domains in a single virtual machine enables domains to share data easily and communicate witho
> hand, unrestricted sharing blurs the boundaries between protection domains, making it difficult tc
> on resource usage. Existing solutions to these problems restrict sharing in an ad-hoc ...

18 Performance of cache coherence in stackable filing

J. Heidemann, G. Popek

December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM s
principles**, Volume 29 Issue 5

Full text available: pdf(2.00 MB)   Additional Information: full citation, references, index terms

19 Transport protocols: A receiver-centric transport protocol for mobile hosts with heterogeneou

Hung-Yun Hsieh, Kyu-Han Kim, Yujie Zhu, Raghupathy Sivakumar

September 2003 **Proceedings of the 9th annual international conference on Mobile computin**

Full text available: pdf(577.61 KB)   Additional Information: full citation, abstract, references, citir

> Numerous transport protocols have been proposed in related work for use by mobile hosts over w
> among the design of such protocols is that they specifically address the distinct characteristics of
> wireless errors, round-trip time variations, blackouts, handoffs, etc. In this paper, we argue that i
> wireless link on a connection's performance, locating the intelligence of a transport ...

> **Keywords**: bandwidth aggregation, heterogeneous wireless networks, multi-homed mobile host,

20 Programming languages for mobile code

Tommy Thorn

September 1997 **ACM Computing Surveys (CSUR),** Volume 29 Issue 3

Full text available: .pdf(393.65 KB)   Additional Information: full citation, abstract, references, citir

Sun's announcement of the programming language Java more that anything popularized the notic on a heterogeneous network and automatically executing upon arrival at the destination. We desc extract their common characteristics, where security proves to be one of the major concerns. Witl we examine six representative languages proposed for mobile code. The conclusion ...

Keywords: Java, Limbo, Objective Caml, Obliq, Safe-Tcl, distribution, formal methods, mobile co orientation, portability, safety, security, telescript

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